## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE          |
|---------------------------|----------|--------|---------------|
| FEE DETERMINATION         |          |        | <del></del> _ |
| O.I.P.E. CLASSIFIER       |          |        |               |
| FORMALITY REVIEW          |          |        | ·             |
| RESPONSE FORMALITY REVIEW |          |        |               |

## **INDEX OF CLAIMS**

| ✓ Rejected                                     | N Non-elected |
|--|---------------|
| = Allowed                                      | Interference  |
| <ul> <li>(Through numeral) Canceled</li> </ul> | A Appeal      |
| ÷ Restricted                                   | O Objected    |

| Claim     |               |               |           | Date         |          |           |              |           |              |              |                | Claim Date |          |          |           |          |           |               |              |              |              |               | C            | laim     |               | Date          |            |          |           |  |                 |              |                |                |          |              |
|-----------|---------------|---------------|-----------|--------------|----------|-----------|--------------|-----------|--------------|--------------|----------------|------------|----------|----------|-----------|----------|-----------|---------------|--------------|--------------|--------------|---------------|--------------|----------|---------------|---------------|------------|----------|-----------|--|-----------------|--------------|----------------|----------------|----------|--------------|
| Final     | PRI<br>CHIA   | 1/2           | 17        |              |          |           | T            |           |              |              | T              |            |          | Original | 900       | 1        | 2         |               |              |              |              |               |              |          |               | Γ             | ē          |          |           | T  | Ť               |              | T              | T              | $\top$   | T            |
| Final     | 10:           | Ж,            | 3         | - 1          |          |           | 1            |           |              |              | -1             |            | ·   i    | Origin   | 7         | 0        | 3         | 1             | ١.           |              |              |               | -            | İ        | -             | 100           |            |          | Ì         | - }  |                 | - [          |                |                |          | -            |
| T I       | 19            | 7             | 7         | $\exists$    |          |           |              | 7         | T            | _            | $\top$         | ٦          |          | 51       | Ž         | 1        | 7         | 十             | ┪            | Ť            | +            | +-            | 十            | ╁        | ┪             | ۲             | 101        | -        | +         | +  |                 | +            | +              |                | +        | +            |
| 2         | 1             | Ť             | H         | 7            | _        |           | 1            | $\top$    | +            |              | +              | 1          | 上        | 52       | 1         | ۳        | 4-        | +             | ╁            | +            | +            | +-            | +            | +        | ┨             | $\vdash$      | 102        | -+       | -         | $\dashv$   | -               | +            | +              | -              | +        | -+-          |
| 3         |               | +             | 11        | 寸            |          |           | T            | +         | $\top$       | 1            | ┰              |            |          | 53       |           | Ħ        | +         | +             | +            | +            | +-           | +             | ┰            | +        | 4             | -             | 103        | -        | +         | +  | +               | +            |                | +              | +        | -            |
| 4         | 11            | +,            | $\vdash$  | $\dashv$     | _        |           | +            | +-        | ╁            | +            | +              | -          | H        | 54       |           | H        | +         | +-            | ╁            |              | +            |               | ╫            | +        | 4             | $\vdash$      |            | -        |           | +  | _               | 4            | +              | - -            | 4        | 4            |
| 5         |               | †             |           | 7            | 7        |           | t            | ╅         | +            | ╁            | +-             | -          | $\vdash$ | 55       |           | ╫        | ┿         | +             | +            | +-           | +            | ╁             | +            | ╁        | -             | $\vdash$      | 104        | -+       | -         | +  | +               | -            | 4              | -              | +        | 4            |
| 6         |               | ۲             | H         | $\dagger$    | 1        |           | $\vdash$     | +         | +            | ╅            | ╁              | +          | H        | 56       |           | ╁        | 1         | +             | ╀            | +            | +-           | ╁             | ╬-           | +        | 4             | -             |            | +        | +         | +  | +               | 4            | 4              | $\perp$        | 4        | 4            |
| 7         |               | †             | H         | +            | ┪        | _         | $\vdash$     | +         | ┪~           | +            | +              | -          | +        | 57       | -         | 1/2      | 4         | ╁             | +            | +-           | ╁            | +             | +-           | +        | -             | -             | 106        | $\dashv$ |           | +  | +               | 4            | +              | 4              | 4        | - -          |
| 8         | #             | +             | #         | +            | $\dashv$ |           | <del> </del> | t         | ╁            | +            | ┰              | 1          | H        | 58       | ╁╌        | ╁        | +         | ╁             | ╁            | +            | +-           | +             | +            | +-       | ┥             | -             | 107        | 4        | +         | 4  | +               | -            | -              | $\bot$         | 4        | 4            |
| . 9       | ++            | $^{+}$        | 11        | $^{\dagger}$ | ┪        |           | $\vdash$     | +-        | +            | ╁            | +              | -          | $\vdash$ | 59       | -         | ┼-       | +         | +-            | ┿            | +-           | ╀            | +-            | +            | +-       | 4             | $\vdash$      | 108        | $\dashv$ | -         | +  | 1               | 4            | $\downarrow$   | -              | 4        | 4            |
| 10        |               | t             | #         | $^{+}$       | +        |           | ┝            | +-        | +-           | +            | ╫              | ┥          | $\vdash$ | 60       | -         | ┝        | ╁         | +-            | ╁            | ╌            | +            | +             | -            | +        | -             | -             | 109        | $\dashv$ | +         | -  | +               | -            | 4              | -              | 4        | 4            |
| 11        |               | $^{+}$        | Н         | $^{+}$       | +        |           | H            | +-        | +            | ╁            | +              | 1          | $\vdash$ | 61       | ├         | H        | ╁         | +             | ╂            | +            |              | ┿             | ╁            | +-       | 4             | -             | 110        | _        | +         | 4  | +               | 4            | 4              | $\bot$         | 4        | 1            |
| 12        | -             | z             | ᡛ         | +            | +        | -         | <del> </del> | +         | +            | +            | +              | 4          | $\vdash$ | 62       | $\vdash$  | -        | +         | +-            | +            | +-           | +            | +-            | ╁            | +-       | H             | $\vdash$      | 111        | +        |           | 4  | $\perp$         | 4            | $\perp$        |                | 4        | 1            |
| 13        | ₽.            | 1             |           | +            | +        | -         | <del> </del> | +         | +            | +            | +              | 1          | +        | 63       | ├         | +-       | ╁         | +             | ╁            | +            | +            | +             | +            | +-       | -             | $\vdash$      | 112        | $\dashv$ | +         | -  | -               | 4            | 4              | $\perp$        | $\perp$  | $\downarrow$ |
| 14        | ₽.            | 5             |           | +            | $\dashv$ | -         | $\vdash$     | +         | +            | +            | 十              | 4          | $\vdash$ | 64       | $\vdash$  | -        | ╀         | +-            | +            | +-           | ╁            | +-            | +            | +-       | 4             | $\vdash$      | 113        | -        | +         | 4  | -               | $\perp$      |                | +              | +        | 1            |
| 15        | +             | 17            | +         | +            | +        | -         | -            | +         | +-           | +            | +              | -          | $\vdash$ | 65       | $\vdash$  | -        | ╁         | +             | +            | ╁            | +            | +-            | +            | ╂        | 1             | $\vdash$      | 114        |          | 4         | +  | 4-              | $\perp$      | 1              | +              | +        | +            |
| 16        | #             | H             | +         | +            | ť        |           | -            | +         | +            | +            | +              | -          | $\vdash$ | 66       | $\vdash$  | -        | +         | ╁             | +            | +-           | ÷            | - ""          | n            | * -      | <b>.</b>      | -             | 115        | $\perp$  |           | +  | 4_              | +            | $\perp$        | 4              | 4        | 4            |
| 17        | #             | H             | +-        | +            | +        | $\dashv$  |              | +-        | H            | +            | +              | 1          | $\vdash$ | 67       | -         | $\vdash$ | +         | $\vdash$      | +            | +-           | -            | -             | ╄-           | $\vdash$ | -             | -             | 116        | +        |           | +  | +               | +            | $\bot$         | -              | $\perp$  | 1            |
| 18        | H             | Н             | †         | +            | +        | 7         | _            | ┢╌        | ╁            | +            | ╁              | ┨          | -        | 68       | -         | ├        | ╁         | -             | +-           | ┿            | +-           | ╀             | ╂            | +        | 1             | <u></u>       | 117        | +        | +         | +  | 4               |              | $\perp$        | -              | ╀-       | _            |
| 19        | ╫             | H             | +-        | +            | +        | $\dashv$  | -            | -         | ╁╌           | ╀            | ╁              | -          | -        | 69       | _         | H        | ╁╾        | ╁             | ┼            | ╁            | +-           | ┾             | ├-           | -        | -             | -             | 118        | 4        | -         | +  | +               | 1            | $\perp$        | ┦              | ↓_       | 4            |
| 20        | ╁             | Н             | +         | +            | ╅        |           | _            | ┢         | ╁            | ╫            | +-             | -          | -        | 70       | -         | _        | ├         | ╀             | ╁            | +            | ╄            | +-            | <del> </del> | ⊢        | ł             | -             | 119        | +        | - -       | $\bot$   | 4               | ↓.           | ┺              | 4_             | 丰        | 1            |
| 21        | ╀             | H             | -         | +            | - -      | $\dashv$  | _            | -         | ╀            | ┼            | +-             | 4          |          |          |           | _        | <u> </u>  | <b>├</b> -    | ļ            | 1            | <del> </del> | ╄             | <u> </u>     | <u> </u> |               | _             | 120        | $\perp$  |           | ┸  |                 | $\perp$      |                |                | $\perp$  |              |
| 22        | ╀             | Н             | H         | ┿            | +        | -         |              | ⊢         | ├-           | ┿            | +-             | -          | $\vdash$ | 71       |           |          | ├         | ╄-            | -            | -            |              | ļ             | <b>!</b>     | <u> </u> | 1             |               | 121        | 4        | -         | $\bot$   | 1_              | 1            | <u> </u>       | <u> </u> _     | 丄        | L            |
| 23        | +             | Н             | ₩         | ╁            | +        | -         |              | ├-        | ╀            | ⊢            | ╀              | -          | $\vdash$ | 72<br>73 |           |          | ⊢         | -             | ├            | ╁            |              | Ŀ             | <u> </u>     | ↓_       |               | _             | 122        | 1        | 1         | _  | 1               | ļ.,          |                | 1_             | ┸        | L            |
| · 24      | ╁             | Н             | Н-        | +            | +        | +         | _            | -         | ┝            | +-           | ╁              | ł          | $\vdash$ | 74       | -         |          | ┢         | ├             | -            | ╂            | ⊢            | -             | ⊢            | <u> </u> | ł             | <u> </u>      | 123        | +        | 4-        | 4  | ↓_              | Ļ            | 1_             | L              | 1        | 丰            |
| 25        | ┢             | Н             | +         | +            | +        | +         | _            | -         | $\vdash$     | H            | +              | +          | -        | 75       |           | _        | -         | ├—            |              | -            | ⊢            |               | -            | ├—       |               | <u></u>       | 124        |          | 4         | $\perp$  | 1_              | $\perp$      | 4-             | 上              | ╀-       | $\perp$      |
| 26        |               | Н             | +         | +-           | $^{+}$   | -+        | $\dashv$     | ┢         | -            | ┢            | <del> </del> - | ┨          | $\vdash$ | 76       | $\dashv$  |          | ├         | ├             | <del> </del> | ├            | <del> </del> | ⊢             |              | <u> </u> |               | <u></u>       | 125        | +        | +         | +  | _               | 1            | ↓_             | ↓_             | $\perp$  | ╄-           |
| 27        |               | Н             | +-        | $^{+}$       | ╅        | $\forall$ |              |           | $\vdash$     | <del> </del> | ┢              | ┨          | $\vdash$ | 77       |           | _        | $\vdash$  | -             | _            | ├            | $\vdash$     |               | H            | -        |               | $\vdash$      | 126        | -        | ╀         | +-   | ╀               | ╀            | ↓_             | <u> </u>       | ↓_       | ╄            |
| 28        | H             | Н             | +-        | +            | Ť        | +         | $\dashv$     | -         |              | $\vdash$     | ╁╾             | 1          | $\vdash$ | 78       | -         |          | $\vdash$  | ┝             | -            | -            |              | _             |              | -        |               | <u> </u>      | 127<br>128 | +        | +         | +  | +-              | ⊢            | ├-             | -              | ╄        | Ļ            |
| 29        | Ħ             | Н             | +         | t            | +        | 7         | $\dashv$     | _         | <del> </del> | ├            | t              | ł          | $\vdash$ | 79       | $\dashv$  |          |           | -             |              | ├-           | -            | -             | _            | -        |               | -             | 129        | +-       | +-        | +  | -               | -            | -              | <u> </u>       |          |              |
| 30        | Н             |               | $\dagger$ | 十            | +        | $\dashv$  | $\dashv$     |           | $\vdash$     | <del> </del> | $\vdash$       | 1          | $\vdash$ | 80       | -1        |          | $\vdash$  | -             | <u> </u>     | <del> </del> | $\vdash$     | -             | Н            | -        |               |               | 130        | +-       | +-        | ╁-   | ╄               | ļ_           |                | <del> </del> — | ⊢        | <del> </del> |
| 31        | Ħ             | 1             |           | †            | ✝        | +         | 7            |           |              | H            | -              | 1          | $\vdash$ | 81       | 7         |          |           | -             | <del> </del> | $\vdash$     | ┢            | $\vdash$      |              | -        |               | _             | 131        | +        | +-        | +  | ┼-              | ⊢            | -              | ┝              | ⊬        | ⊢            |
| 32        |               | 날             | 1         | ✝            | †        | 1         | -            |           | -            |              | ┢              | 1          |          | 82       | -         | _        | -         | $\vdash$      | <u> </u>     | -            | <u> </u>     | -             | -            | Н        |               |               | 132        |          | ╁         | -  | H               | -            | ╀              | ├              | ⊬        | ⊢            |
| (33)      | П             | Ŋ             | ↰         | 1            | †        | +         | 1            | T         |              | _            | <u> </u>       | 1          | -        | 83       | 7         |          |           | _             |              | -            | <u> </u>     |               | $\dashv$     | $\vdash$ |               | $\overline{}$ | 133        | ╅╴       | ╁         | ┼  | $\vdash$        | -            | <del> </del>   | ├              | ├        | ┝            |
| 34        | П             | 1             | $\vdash$  |              | 1        | 1         | 7            |           |              |              | _              | 1          | _        | 84       | 7         |          |           |               |              | -            | -            | $\dashv$      | $\dashv$     | $\dashv$ |               |               | 134        | +        | ╁         | ╁╾   | $\vdash$        | -            | $\vdash$       | ·              | H        | ├            |
| 35        | $\prod$       | ٦             | 1         | T            | Τ        | 寸         | 7            | $\exists$ | _            | П            | Γ-             | 1          |          | 85       | 1         | -        |           |               |              | $\vdash$     | -            | -             | -            | $\vdash$ |               |               | 135        | +        | +         | +  | -               | <del> </del> |                | -              |          | $\vdash$     |
| 36        | П             |               |           |              | T        | 7         |              |           |              |              |                |            |          | 86       | T         | $\dashv$ |           |               |              |              |              | $\dashv$      | -            | $\dashv$ | <b>**</b> *** |               | 136        | ╁        | +         | +  | -               | -            | $\vdash$       | -              | $\vdash$ | -            |
| 37        | $\prod$       | _]            |           | Γ            | Ι        |           |              |           |              |              | Γ.             | ۰۰         | F        | 87       | 7         |          | Ħ         | $\neg$        | $\exists$    |              |              | $\neg$        | T            | $\dashv$ |               | $\rightarrow$ | 137        | +        | +         | ╁  |                 | -            | -              | Η,             | H        | -            |
| 38        | $\prod$       |               |           |              | Γ        |           |              |           |              | П            |                | 1          |          | 88       | $\dashv$  | _        | $\exists$ |               | $\neg$       |              | $\neg$       | $\dashv$      | -            | $\dashv$ |               |               | 38         | ┰        | +-        | $\vdash$   |                 | -            | -              | $\vdash$       | H        | -            |
| 39        | $\prod$       |               |           |              | T        | 1         | T            |           |              |              |                | 1          | Г        | 89       | 7         | $\dashv$ | $\neg$    |               | T            | _            |              | 7             | $\dashv$     |          | i             | $\overline{}$ | 39         | ╁╴       | $\dagger$ | <del>                                     </del> | $\vdash$        | _            | $\vdash$       | Н              | Н        | -            |
| 40        | $\prod$       |               |           |              |          | T         | $\neg$       | $\exists$ |              |              |                |            |          | 90       | $\dashv$  | ┪        | $\exists$ | $\dashv$      |              |              | $\dashv$     | 7             | $\dashv$     | $\dashv$ |               | -             | 40         | +-       | t         | <del>                                     </del> | $\vdash$        | -            | $\vdash$       | -              | $\vdash$ |              |
| 41        | П             |               |           |              | Τ        | 十         | $\top$       | 7         |              | $\dashv$     |                |            | П        | 91       | $\dashv$  | 7        | $\dashv$  | _             | -            | $\neg$       |              | 寸             | $\dashv$     | $\dashv$ |               |               | 141        | +        | +-        | $\vdash$   |                 |              | $\vdash\dashv$ | $\dashv$       | -        | _            |
| (42)      | 11            | 7             | _         |              | Τ        | 十         | $\dagger$    | 7         |              |              | $\dashv$       |            | -        | 92       | $\dashv$  | 7        | -         | $\dashv$      | -            | $\dashv$     |              | +             | ┪            | $\dashv$ |               |               | 42         | +        |           | $\vdash$   | $\vdash$        |              | $\vdash$       |                | $\dashv$ | _            |
| 43        | Ħ             | 7             |           | Г            | 1        | $\dagger$ | $\top$       | 7         | $\dashv$     | -            | $\dashv$       |            |          | 93       | +         | $\dashv$ | +         | $\dashv$      | 7            | $\dashv$     | $\dashv$     | $\dashv$      | +            | $\dashv$ | .             |               | 43         | +        | +-        | <del>                                     </del> |                 |              | $\vdash$       |                | $\dashv$ | _            |
| (44)      | 11            | 7             |           | Г            | T        | †         | $\top$       | 7         | 7            | $\dashv$     | 一              |            | Н        | 94       | +         | $\dashv$ | -         |               | +            | $\dashv$     | $\dashv$     |               | $\dashv$     | $\dashv$ |               |               | 44         | ╁╌       | $\vdash$  |  | $\vdash \vdash$ |              |                | $\dashv$       | $\dashv$ | -            |
| 45        | $I^{\dagger}$ | 7             |           | Г            | T        | †         | $\top$       | 7         | $\dashv$     | 7            | -              |            | $\vdash$ | 95       | $\dagger$ | 7        | $\dashv$  | $\dashv$      | -            |              | $\dashv$     | $\dashv$      | +            | $\dashv$ | - 1           |               | 45         | +        |           | -  |                 |              |                |                | $\dashv$ | -            |
| 45<br>(46 | П             | ╗             | Г         | Γ            | Τ        | $\top$    | 7            | $\dashv$  | 7            | 7            | 7              |            |          | 96       | $\dagger$ | 7        | ヿ         | $\dashv$      | $\dashv$     | -+           | 1            |               | $\dashv$     | ᅱ        |               |               | 46         | +        | -         | $\vdash$   | $\dashv$        |              |                |                | $\dashv$ | $\dashv$     |
| 47        | $\prod$       | 7             |           |              | T        | $\top$    | 7            | $\dashv$  | ┪            | 7            |                |            |          | 97       | $\top$    | -+       | 7         | $\dashv$      | 7            | $\dashv$     | +            | $\dashv$      | +            | $\dashv$ | Ì             |               | 47         | +-       | $\vdash$  | $\vdash$   |                 | $\dashv$     |                | -              | $\dashv$ | {            |
| 48        | П             | 7             |           |              | T        | 1         | $\dagger$    | 7         | $\dashv$     | 1            |                |            |          | 98       | $\dagger$ | $\dashv$ | +         | 1             | $\dashv$     | 7            | $\dashv$     | $\dashv$      | $\dashv$     | $\dashv$ | ŀ             | _             | 48         | +        | ┝         | H  | -+              | $\dashv$     | $\dashv$       | -+             | $\dashv$ | $\dashv$     |
| 49        | $\coprod$     | $\mathcal{L}$ | Ŀ         |              |          |           |              |           |              |              |                |            |          | 99       | $\top$    | T        |           |               | 7            | 1            | $\dashv$     | 7             | $\dagger$    | $\neg$   |               | _             | 49         | $\vdash$ |           | H  | $\dashv$        | $\dashv$     | -              | +              | $\dashv$ | 긕            |
| 50        | Z             | 17            |           | 1            | Г        | Т         | $\top$       | $\neg$    | $\neg$       | _            | _              |            |          | 00       | $\neg$    | $\neg$ t | -+        | $\rightarrow$ | -            | -+           | -+           | $\rightarrow$ | -+           | $\dashv$ | ŀ             |               | 50         | +        | ├         | ш  | -               |              | -              | -4             | $\dashv$ | _            |

If more than 150 claims or 10 actions staple additional sheet here

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